Student: Date: Time:

Instructor: Natasa Paunovska

Course: Precalculus (Demana, Waits,

Foley, Kennedy)

Book: Demana: Precalculus: Graphical,

Numerical, Algebraic, 8e

Find which value(s) of x are solution(s) of the equation. 1.

$$3x^2 + 5x = 2$$

(a) x = -2 (b)  $x = -\frac{1}{3}$  (c)  $x = \frac{1}{3}$ 

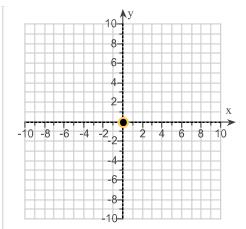
Select all values of x that are solutions of the equation.

- $\square A$ . x = -2
- $\square B. \quad x = -\frac{1}{3}$
- $\square C$ .  $x = \frac{1}{3}$

Locate the point (1, -5) on a rectangular 2. coordinate system. Identify the quadrant in which the point lies.

Plot the point (1, -5).

The point (1, -5) lies in quadrant (Type I, II, III, or IV.)



**Assignment:** Chapter P Test Review

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3.	Determine whether the solutions of the inequal $x-1 \ge 8$ ; $-2$ , 0, 5, 18	_	Is -2 a solution?  No Yes  Is 0 a solution?  Yes  No No  Is 5 a solution?  No Yes  Is 18 a solution?  Yes  Yes
4.	Solve the following equals $x^2 + 9x + 20 = 0$ $x =  $ (Use a comma to separate	equation symbolically and graphically.	
5.	Simplify. Assume that the denominators are nonzero $\frac{m^9n^7}{m^5n^4}$		$\frac{m^9n^7}{m^5n^4} = $ (Simplify your answer. Type exponential notation with positive exponents.)
6.		to of the line containing the pair of points $(12, -2)$ and $(8,12)$ . the line is $\square$ . (Type an integer or simplified fraction.)	
7.	Solve. $9x^2 = 64$		x = (Simplify your answer. Use a comma to separate answers as needed.)

T	Instructor: Natasa Paunovs Course: Precalculus (Demai Foley, Kennedy) Book: Demana: Precalculus Numerical, Algebraic, 8e	na, Waits,			
8.	Factor. Check by multiplying.				
	$px^8 + cx^8$				
	The factorization is				
9.	Find the value of y so that the line through the pair of points has the given slope.				
	The line through the points (5, 2) and (2, y) with slope 1.				
	y =				
10.	Find the distance between the two points.				
	(4, -2) and $(-76, 16)$				
	The distance is				
11.	Find the midpoint of the segment with the given endpoints.	The midpoint is			
	(2,-1) and $(-3,7)$				
12.	Solve for x by using the quadratic formula.	The solutions are $x = $ (Simplify your answer. Type an exact answer,			
	$x^2 + 6x + 4 = 0$	using radicals as needed. Use a comma to separate answers as needed.)			
13.	Solve by completing the square.				
	$x^2 + 3x = 28$				
	The solutions are . (Use a comma to separate answers as needed.)				
14.	Write in interval notation.				
	x < 7				
	In interval notation, $x < 7$ is $\square$ .				

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15. Solve the equation.

$$3x - 16 = 8$$

$$\mathbf{x} =$$

(Simplify your answer.)

16. Choose the inequality whose solution set is  $(-\infty,0]$ .

 $\bigcirc A. \quad x \leq 0$ 

 $\bigcirc$  B. x > 0

 $\bigcirc$  C.  $x \ge 0$ 

 $\bigcirc D. \quad x < 0$ 

17. Find a slope-intercept form equation for the line containing the given point and having the given slope.

$$(-1.8), m = -5$$

The equation is  $y = \boxed{\phantom{a}}$ .

18. Express the set of real numbers graphed on the number line with an inequality.



Choose the inequality that describes the graph.

 $\bigcirc$  A.  $x \le -3$ 

 $\bigcirc$ B. x > -3

 $\bigcirc$ C.  $x \ge -3$ 

OD. x < -3

Write the general form of the equation of the line through this pair of points.

(-5,2) and (-7,7)

The equation is  $\Box = 0$ . (Simplify your answer.)

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20.	Solve the equation graphically by finding intersections.						
	x-5 =17						
	x =  (Simplify your answer	r. Use a comma to separate	e answers as	needed.)			
21.	For each variable in the	ne table, produce the scatte	erplot.				
	x(year) 1986 198	7 1988 1989 1990 19	91				
	y(sales) 3252 339	1 3543 3431 2643 31	34				
	Use the viewing rectangle [1980,2000,1] by [2600,3600,100]. Choose the correct scatterplot.						
	OA.	○в.		Oc.			
	• •						
22.	Solve. Then graph.		The soluti	ion is $\{a \mid a \leq \square\}$ .			
	$a-9 \le -12$		(Simplify decimal.)	your answer. Type an integer or a			
			Choose th	ne graph of the solution.			
			OA. ←	5 -4 -3 -2 -1			
			<b>○</b> B.				
				5 -4 -3 -2 -1			
			Oc.				

OD.

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23.	Find the value of the expression.				
	5- -4				
	The value is .				
24.	Solve the equation.				
	$-\frac{3}{5}x = \frac{12}{10}$				
	$x = \square$ (Type an integer or a simplified fraction.)				
25.	An investor purchased a house 8 years ago for \$44,000. This year it was appraised at \$70,500.				
	(a) A linear equation $V = mt + b$ , $0 \le t \le 15$ , represents the value $V$ of the house for 15 years after it was purchased. Determine $m$ and $b$ .				
	m = $b = $ (Type an integer or a decimal.)				
	(b) Graph the equation and trace to estimate in how many years after purchase this house will be worth \$72,900.				
	years (Type an integer or a decimal rounded to one decimal place as needed.)				
	(c) Write and solve an equation algebraically to determine how many years after purchase this house will be worth \$76,000.				
	The equation is $( )t + ( ) = 76,000.$ (Type an integer or a decimal rounded to two decimal place as needed.)				
	The solution to the above equation is $t = \square$ .				
	(Type an integer or a decimal rounded to two decimal place as needed.)				
	(d) Determine how many years after purchase this house will be worth \$90,375.				
	years (Type an integer or a decimal rounded to two decimal place as needed.)				

Student: **Instructor:** Natasa Paunovska **Assignment:** Chapter P Test Review Date: Course: Precalculus (Demana, Waits, Time: Foley, Kennedy) Book: Demana: Precalculus: Graphical, Numerical, Algebraic, 8e A, C 1. (1, -5)2. IV No 3. No No Yes -5, -44.  $m^4 \cdot n^3$ 5. 6. 7.  $x^{8}(p+c)$ 8. **-** 1 9. 82 10. (-0.5,3)11.  $-3+\sqrt{5}$ ,  $-3-\sqrt{5}$ 12. -7,413.

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14.	$(-\infty,7)$		
15.	8		
16.	A		
17.	-5x + 3		
18.	В		
19.	5x + 2y + 21		
20.	- 12,22		
21.	C		
22.	-3 D		
23.	1		
24.	- 2		
25.	3312.50 44,000.00 8.7 3312.50 44,000.00 9.66 14		